Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1-28 (Cancelled)

- 29. (Currently Amended) A pharmaceutical composition comprising:
- (i) a pTV2 or pCK plasmid construct comprising <u>a promoter operably linked to</u> a nucleotide sequence encoding a C-terminally truncated human Her-2/neu protein, said protein consisting <u>essentially</u> of <u>a signal peptide</u>, the entire extracellular domain and transmembrane domain of Her-2/neu[[[5]]] or <u>a signal peptide</u> and the entire extracellular domain of Her-2/neu; and
 - (ii) an adjuvant.
- 30. (Currently Amended) The <u>pharmaceutical composition plasmid construct</u> of claim 29, wherein said truncated Her-2/neu protein consists <u>essentially of the of a signal peptide</u>, <u>the entire</u> extracellular domain and transmembrane domain <u>of Her-2/neu encoded by SEQ ID NO: 2</u>.
- 31. (Withdrawn, Currently Amended) The <u>pharmaceutical composition</u> plasmid construct of claim 29, wherein said truncated Her-2/neu protein consists essentially of the <u>of</u> a signal peptide and <u>the entire</u> extracellular domain <u>of Her-2/neu encoded by SEQ ID NO: 3.</u>

- 32. (Currently Amended) The <u>pharmaceutical composition</u> plasmid construct of claim 30 [[29]], wherein said nucleotide sequence encoding a truncated human Her-2/neu protein comprises SEQ ID NO: 2.
- 33. (Currently Amended) The <u>pharmaceutical composition plasmid construct</u> of claim 29, wherein said pTV2 plasmid construct is pNeu_{TM} deposited at the Korean Culture Center of Microorganisms (KCCM) under the accession number KCCM-10393 and wherein said pCK plasmid construct is pCK_{TM} deposited at the KCCM under the accession number KCCM-10396 KCCM-10395.
- 34. (Currently Amended) The <u>pharmaceutical composition</u> plasmid construct of claim 29, which further wherein said adjuvant comprises a nucleotide sequence encoding a cytokine.
- 35. (Currently Amended) The <u>pharmaceutical composition</u> plasmid construct of claim 34, wherein said cytokine is granulocyte-macrophage colony-stimulating factor (GM-CSF).
- 36. (Currently Amended) The <u>pharmaceutical composition</u> plasmid construct of claim 34, wherein the <u>said</u> nucleotide sequence encoding said truncated human Her-2/neu protein and the <u>said</u> nucleotide sequence encoding said cytokine are situated as a bicistronic construct, separated by an internal ribosomal entry site (IRES).

37. (Currently Amended) The <u>pharmaceutical composition</u> plasmid construct of claim 36, which comprises pCK_{TM-GMCSF}.

38-43. (Cancelled)

- 44. (Currently Amended) The pharmaceutical composition of claim <u>34</u> [[42]], wherein said nucleotide sequence encoding a truncated Her-2/neu protein and said nucleotide sequence encoding a cytokine are on separate plasmids.
- 45. (Currently Amended) The pharmaceutical composition of claim <u>34</u> [[42]], wherein said nucleotide sequence encoding a truncated Her-2/neu protein and said nucleotide sequence encoding a cytokine are on the same plasmid.

46. (Cancelled)

- 47. (Currently Amended) A method for preventing or treating cancer comprising intramuscularly administering an effective amount of the pharmaceutical composition of claim 29 [[38]] to a mammal in need of prevention or treatment of a Her-2/neu-over-expressing human cancer, wherein said mammal develops an immune response to Her2/neu protein thereby preventing or treating a Her-2/neu-over-expressing human cancer.
- 48. (Original) The method of claim 47, wherein said cancer is breast cancer or ovary cancer.

49-60. (Cancelled)

- 61. (New) The method of claim 47, wherein said mammal is human.
- 62. (New) The pharmaceutical composition of claim 29, wherein said plasmid construct is a pTV2 plasmid construct.
- 63. (New) The pharmaceutical composition of claim 29, wherein said plasmid construct is a pCK plasmid construct.
 - 64. (New) The method of claim 48, wherein said cancer is breast cancer.
 - 65. (New) The method of claim 48, wherein said cancer is ovary cancer.
- 66. (New) A method of inducing anti-Her-2/neu immunity in a mammal, comprising intramuscularly administering to a mammal in need of prevention or treatment of a Her-2/neu-over-expressing human cancer an effective amount of the pharmaceutical composition of claim 29; wherein said mammal develops an immune response to Her-2/neu protein, thereby inducing anti-Her-2/neu immunity in said mammal.
- 67. (New) The method of claim 66, wherein said cancer is breast cancer or ovary cancer.
 - 68. (New) The method of claim 67, wherein said cancer is breast cancer.

- 69. (New) The method of claim 68, wherein said cancer is ovary cancer.
- 70. (New) The method of claim 66, wherein said immunity comprises production of Her-2/neu-specific antibodies, or a CTL response to Her-2/neu.
 - 71. (New) The method of claim 48, wherein said mammal is human.
- 72. (New) A method of reducing Her-2/neu over-expressing tumor growth in a mammal, comprising intramuscularly administering to a mammal in need of treatment of a Her-2/neu-over-expressing human cancer an effective amount of the pharmaceutical composition of claim 29; wherein said mammal develops an immune response to Her-2/neu protein thereby reducing Her-2/neu over-expressing tumor growth in said mammal.
- 73. (New) The method of claim 72, wherein said cancer is breast cancer or ovary cancer.
 - 74. (New) The method of claim 73, wherein said cancer is breast cancer.
 - 75. (New) The method of claim 73, wherein said cancer is ovary cancer.
 - 76. (New) The method of claim 72, wherein said tumor is a solid tumor.
 - 77. (New) The method of claim 72, wherein said mammal is human.